



APPENDIX A - SPECIFICATION/CLAIM AMENDMENTS
INCLUDING NOTATIONS TO INDICATE CHANGES MADE

Serial No.: 09/388,286

Docket No.: 150.01010101

Amendments to the following are indicated by underlining what has been added and bracketing what has been deleted. Additionally, all amendments are in bold text.

In the Claims

For convenience, all of pending claims 1, 3, 6-21, and 28 are shown below.

1. A method of detecting a gas phase material comprising:
providing a sensor comprising first and second electrodes, a detection surface extending between the first electrode and the second electrode, and a detector operatively connected to the first and second electrodes;
exposing the detection surface to a gas phase material comprising ruthenium, wherein an electrically conductive film of gas phase material forms on the detection surface between the first and second electrodes;
detecting the gas phase material from a change in conductivity between the first and second electrodes with the detector; and
generating an alert based on the detection of the gas phase material;
wherein the detection surface is selected such that the gas phase material preferentially deposits on the detection surface.
3. A method according to claim 1, wherein the gas phase material comprises ruthenium tetraoxide.
6. A method of detecting a gas phase material comprising:
providing a sensor comprising first and second electrodes, a detection surface extending

Applicant(s): Blalock

Serial No.: 09/388,286

Filed: 1 September 1999

For: DETECTION OF GAS PHASE MATERIALS

between the first electrode and the second electrode, and a detector operatively connected to the first and second electrodes, wherein the detection surface is not electrically conductive;

exposing the sensor to a gas phase material comprising ruthenium, wherein an electrically conductive film of the gas phase material forms on the detection surface between the first and second electrodes;

detecting electrical conductivity of the electrically conductive film between the first and second electrodes with the detector; and

generating an alert based on the detection of the electrical conductivity of the electrically conductive film;

wherein the detection surface is selected such that the gas phase material preferentially deposits on the detection surface.

7. A method according to claim 6, wherein the detection surface comprises a polymer.
8. A method according to claim 6, wherein the detection surface comprises polypropylene.
9. A method according to claim 6, wherein the detection surface comprises glass.
10. A method of detecting a gas phase material comprising:
 - providing a sensor comprising first and second electrodes, a detection surface extending between the first electrode and the second electrode, and a detector operatively connected to the first and second electrodes;
 - heating the detection surface above ambient temperature;
 - exposing the detection surface to a gas phase material comprising ruthenium, wherein an electrically conductive film comprising ruthenium forms on the detection surface between the first and second electrodes;
 - detecting the gas phase material from a change in conductivity between the first and second electrodes with the detector; and

generating an alert based on the detection of the gas phase material;

wherein the detection surface is selected such that the gas phase material comprising ruthenium preferentially deposits on the detection surface.

11.(Amended) A method according to claim 10, wherein **[the gas phase material comprises ruthenium, and further wherein]** heating the detection surface comprises heating the detection surface up to about 100°C or less.

12. A sensor for detecting a gas phase material comprising ruthenium in an environment, the detector comprising:

first and second electrodes;

a detection surface extending between the first electrode and the second electrode, wherein the detection surface comprises a material on which the gas phase material comprising ruthenium preferentially deposits; and

a detector measuring electrical conductivity between [operatively connected to] the first and second electrodes, where the detector generates an alert when an electrically conductive film comprising ruthenium forms on the detection surface between the first and second electrodes.

13. A sensor according to claim 12, wherein the detection surface comprises a polymer.

14. A sensor according to claim 12, wherein the detection surface comprises polypropylene.

15. A sensor according to claim 12, wherein the detection surface comprises glass.

16. A sensor according to claim 12, wherein the detector comprises an electronic circuit capable of detecting a change in electrical conductivity between the first and second electrodes.

17. A sensor for detecting a gas phase material comprising ruthenium in an environment, the detector comprising:

Applicant(s): Blalock

Serial No.: 09/388,286

Filed: 1 September 1999.

For: DETECTION OF GAS PHASE MATERIALS

first and second electrodes;

a detection surface extending between the first electrode and the second electrode, wherein the detection surface comprises a material on which the gas phase material comprising ruthenium preferentially deposits;

a heater capable of providing thermal energy to the detection surface; and

a detector measuring electrical conductivity between [operatively connected to] the first and second electrodes, where the detector generates an alert when an electrically conductive film comprising ruthenium forms on the detection surface between the first and second electrodes.

18. A sensor according to claim 17, wherein the detection surface comprises a polymer.

19. A sensor according to claim 17, wherein the detection surface comprises glass.

20. A sensor according to claim 12, wherein the detector comprises an electronic circuit capable of detecting a change in electrical conductivity between the first and second electrodes.

21. A method according to claim 1, wherein selection of the detection surface comprises selecting a detection surface comprising polypropylene.

28. A method according to claim 10, wherein selection of the detection surface comprises selecting a detection surface comprising polypropylene.